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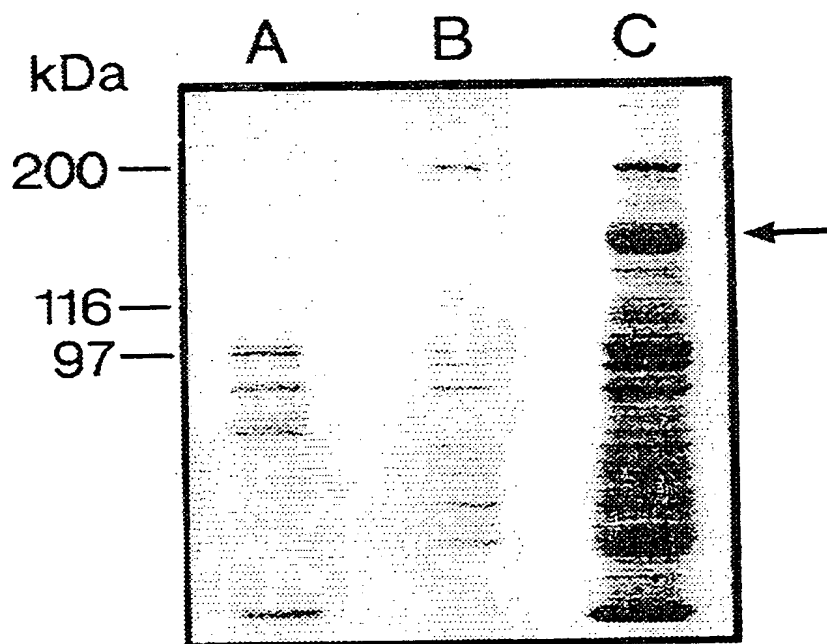


FIGURE 1

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Peptide	Amino acid sequence
1	DNTAQTSAYIQYEPHHSI
2	GPGHWDR
3	AAFDGSGQR
4	FAMGALPD
5	FTASLDEWTTAAR
6	VDASFRPQGXLAP

FIGURE 2

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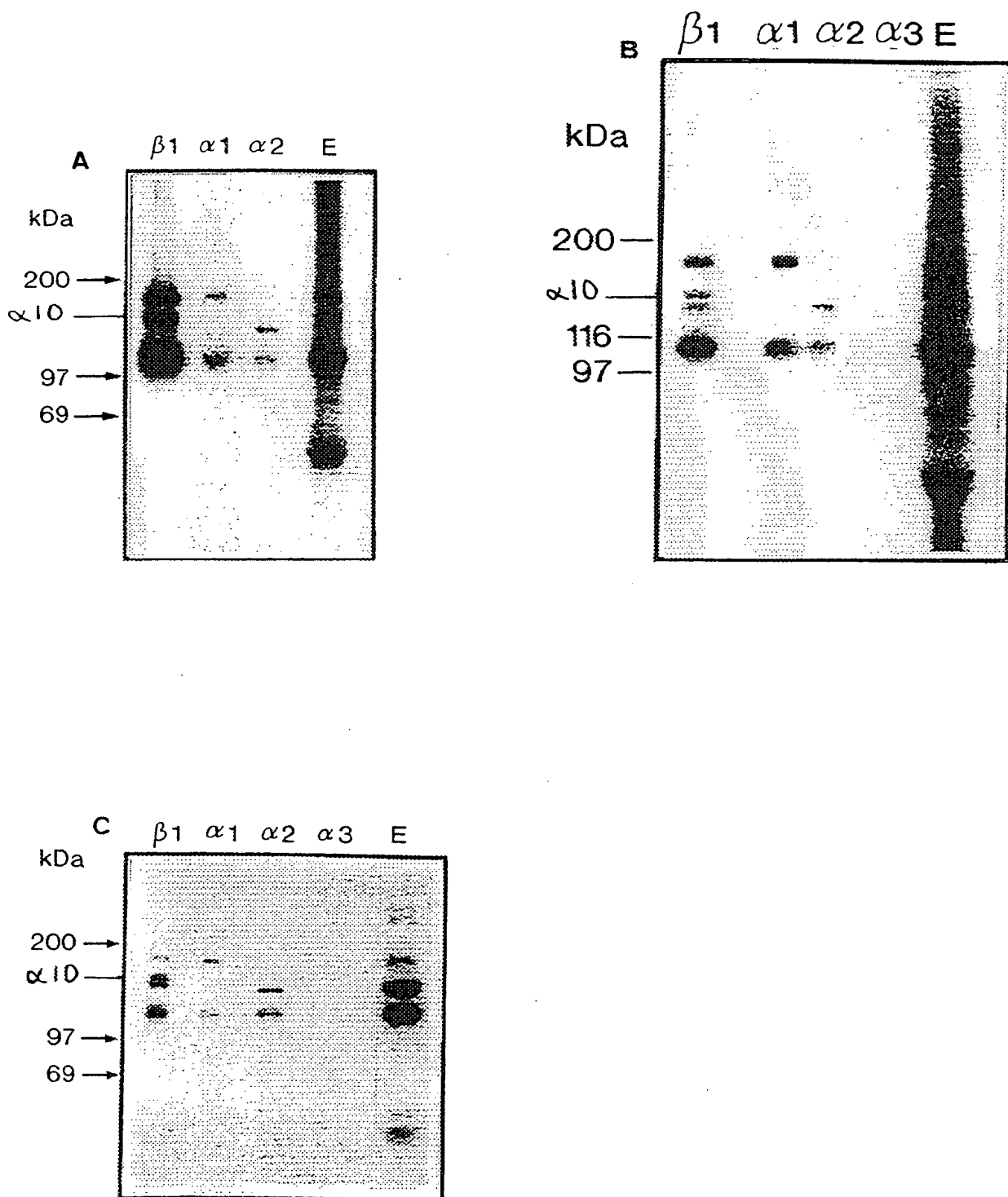


FIGURE 3

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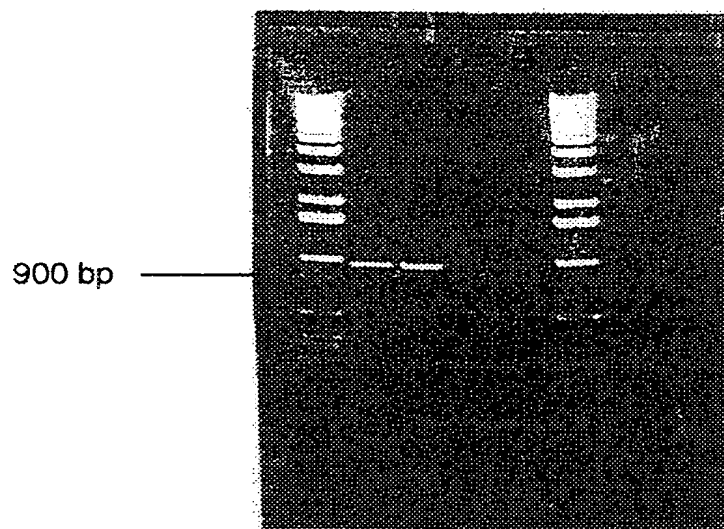


FIGURE 4

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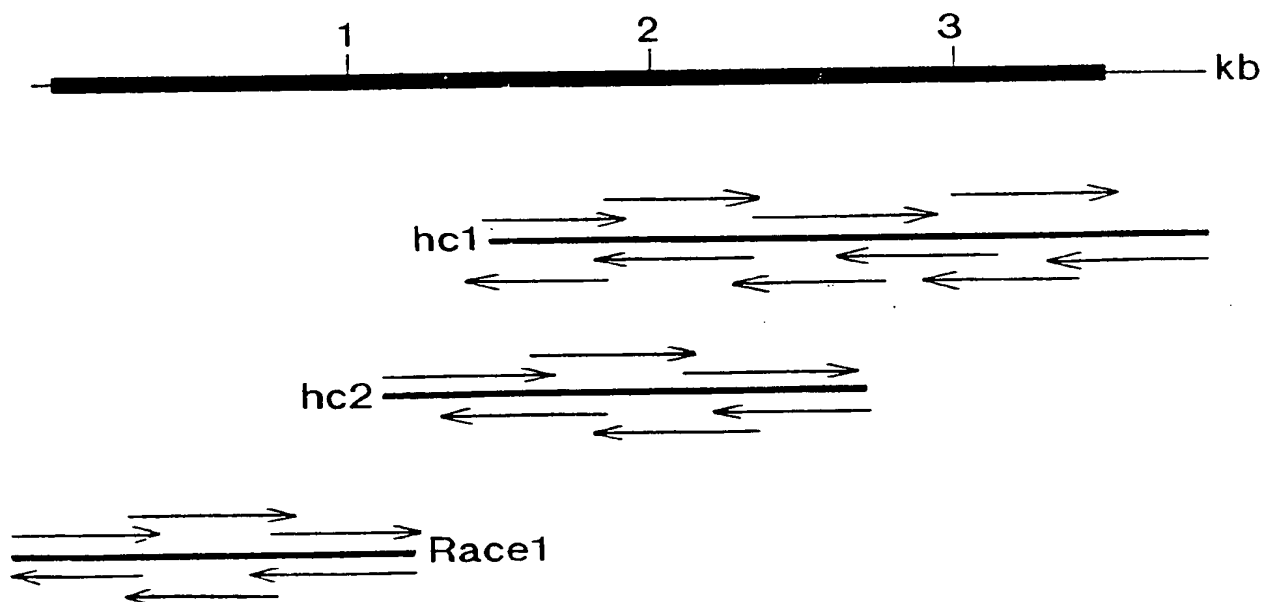


FIGURE 5

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CAGGTGAGAAACGATGAGGATGGAACCTCCCTTGTCACTACCTGTCTTCCCTGTGTCTCTGACA 72
 M E L P F V T H L F L P L V F L T -6
 GGTCTCTGCTCCCTTTTACCTGGATGAACATCAACCAAGCTATTCAGGCGCCAGCAGAGCTGAATT 144
 G L C S P F N L D E N H P R L F P G P P E A E F 19
 GGATACAGTCTCTTACACATGTTGGGGTGGACAGCAGTGGATGCTGGTGGGCGCCCTGGATGGGCT 216
 G Y S V L Q H V G G G Q R M H L V C A P W D G P 43
 TCAGGCGACCGAGGGGGAGCTTTATCTGCTGCCCTGTAGGGGGGCGCAATGCCATCTGCAAGGGC 288
 S G D R R G D V Y R C P V G G A H N A P C A K G 67
 CACTTAGTGACTCACTGGGAATTCATCTCATCTCTGTGAATGCACTGGGGATGCTCTGTGA 360
 H L G D Y Q L G N S S H P A V M H H L G H S L L 91
 GAGACAGTGGTATGGGGATTCATGCTCTGCTCCCTCTCTGCTCTGCTCTGTGGCAGCTCTGCTTC 432
 E T D G D G G F M A C A P L M S R A C G S S V F 115
 AGTCTGGATATGCTCCCTGTGGATGCTCATCTCAGGCTCAGGGAAGCTGGCACTGCTCCAGCG 504
 S S G I C A R V D A S F O P Q G S L A P T A Q R 139
 TCCCAACATACATGGATGTTGCTTCTCTGGATGGCTCAGACAGCTATCACTCTGCTGAATCTCAG 576
 C P T Y H D V I V L D G S N S I Y P M S E V Q 163
 ACCTTCTACGAAGCTGGTAGGAACTGTTTATTGACCCAGAACAGATACAGTGGGACTGGTACAGTAT 648
 T F L R R L V G K L F I D P E Q I Q V G L V Q Y 187
 GGGGAGGCTCTACATGAGTGGTCTGGGAGATTCCGACGAGGAGAACTGGTGGAGCAGCAAG 720
 S Q T S P V H E M S L G D F R T K E E V V R A A K 211
 AACCTCAGTGGCGGGAGGAGAGAACAAAGATGCCAAGCAATATGGTGGCTGCACAGAGGGTTC 792
 H L S R R E G R E T K T A Q A I M V A C T E G F 235
 AGTCACTCCATGGGCGGAGCCGAGGCTGGCAGGCTACTGGTGTCTACTGATGGAGTCCCATGAT 864
 S Q T S H G R P E A A R L L V V T D G A S T D 259
 GGAGAGGCTCTCTGACAGCTAAGGCTGTGAGGCTGGAGAGTGAACGCTTGGATTCAGTCTCT 936
 G E E L P A A L K A C E A G R V T R Y G I A V L 283
 GGTCACTACTCCCGGGCGAGAGTCCAGCTCTCTCTGAGAGAAATGAGTATTCAGTCTGATCCA 1008
 G H Y L R R R O R D P C S F L R E I R T I A S D P 307
 GATGAGGCTCTCTCTCAATGACAGATGAGGCTGCTCTGACTGACATTTGGATGACTAGGAGTGG 1080
 D E R F F F H V T D E A A L T D I V D A L G D R 331
 ATTTTGGCTTGAAGGCTCCATGAGAAACGAAAGCTCTCTTGGCTGGAAATGCTCAGATTTGGTTC 1152
 I F G L E G S H A E N E S S F G L E M S Q I G F 355
 TCACCTATCGCTTAAGAGTGGATTTCTTTGGGATGCTGGGGCTGACTGGGAGGCTCTGCTGA 1224
 S T H R L K D G I L F G H V G A Y D W G G S V L 379
 TGCTTGAAGGAGCCACCGCTTTTC CCCC CAGGAATGGCAGTGAAGAGGAGTCCCGCTGCATGAG 1296
 V L E G G H R L F P P R M A L E D E F P P A L Q 403
 AACATGAGGCTACCTGGGTACTCTGTTCTTCATGCTTTTGGGGTGGAGCCGCTGTTCTCTCT 1368
 M H A A Y L G Y S V S S M L L R G G R R L F L S 427
 GGGCTCTCGATTAGACATGGAGAAAGTCACTGCCCTTCAAGCTTAAGAAAGATGGGCTGTGAGGTT 1440
 G A P R P R H R G K V I A F O L K K D G A V R V 451
 GCCAGAGCTCCAGGGGAGGAGATGTTTATCTTTGGAGTGAAGCTGCTGCCATGGATACAGATAG 1512
 A O S L Q G E Q I G S Y F G S E L C P L D T D R 475
 GATGGAGCACTGATCTTACTTGTGGTCCCGCATGCTTGGAGCCAGAGCAAGGAACAGGAGCT 1584
 D G T T D V L L V A A P H F L G P Q N K S T G R 499
 GTTATGTGTATCTGTAGGCGAGCACTCTGCTGAGCTTCAAGGAACACTCAGCCAGAAACCCCGAG 1656
 V Y V Y L V G Q D S L L T L O G T L Q P E P P Q 523
 GATGCTGGTTTGGCTTTGGCATGGAGCTCTTCTGATGAGCAAGATGTTTCTGATGTGGCTGTG 1728
 D A R F C F A N G A L P D L N O D G F A D V A V 547
 GGGGCGCTCTGAGATGGGAGCAGGGAGCACTGTACTGTACCATGGAACCGAGCTGGAGTGGGCGC 1800
 G A P L E D G H Q G A L Y L Y H G T O S G V R P 571

CATCTGCCAGAGGATGGTGGTGGCTCATGCCACATGCCCTCAGCTACTTTGGCGAAGTGGATGGT 1872
 H P A Q R I A A A S M P H A L S Y F G R S V D G 595
 CGGCTAGATCTGGATGGAGATGATCTGGTGGATGGCTGTGGGTGCCAGGGGGAGCATCTCTCAGC 1944
 R L D L D G D D L V D V A V G A Q G A A I L L S 619
 TCCGGCCCATTTGTCATCTGACCCCATCTGAGGAGTGGACCCAGAGGCCATCAGTGTGGTTCAGAGGGAC 2016
 S R P I V H L T P S L E V T P Q A I S V V Q R D 643
 TGTAGGCGGAGGCGAAGAGGAGTCTGTGACTGCAGCCCTTTGCTTCAAGTGACCTCCGCTACTCT 2088
 C R R R G Q E A V C L T A A L C F Q V T S R T P 667
 GGTGCTGGATCACTCAATCTACATGAGGTTCACTGCATCTGATGAATGGAGTCTGGGCGAGCTGCA 2106
 G R M D H Q F Y M R F T A S L D E M T A G A R A 691
 GCATTTGATGGCTTGGCCAGAGGTTGCTCCCTCGAGGGCTCCCGCTCAGTGTGGGAATGTCACTTGTGAG 2232
 A F D G S G Q R L S P R R L R L V S V G M V T C E 715
 CAGCTACACTTCCATGTGCTGGATACATCAGATTACTCCCGCAGTGGCTTCTGCTGACCTTTGCTTG 2304
 Q L H F H V L D T S D Y L R P V A L T V T F A L 739
 GACAACTACAAAGCGAGGGCTTGTGCTGAATGAGGGCTCAGCCCATCTATACAAAGCTGGTCCCTTC 2376
 D N T T K P G P V L N E G S P T S I Q K L V F F 763
 TCAAAAGATTGTGGCTGACAAATGAATGTGACAGAGCTGGCTCTCAAGTGAATGGACATCAGAGGC 2448
 S K D C G P D N E C V T D L V L Q V N M D I R G 787
 TCCAGGAAGGCCCATTTGCTGGTGGAGTGGCGGGGAGAGTGGTGAATCACTACCTGGAAGACAGA 2520
 S R K A P F V V R G G R R K V L S V T L E H R 811
 AAGAAATGCTTACAAAGAGCTGAGTATCATCTTCTAGAACTCCACCTGGCAGTCTCACTCT 2592
 K E N A Y N T S L S I I F S R M L H L A S L T P 835
 CAGAGAGAGGCCCAATGAAGTGAATGTGGCGCCCTTCACTGAGTGGCTGCAAGTGTGGGGAT 2644
 S R K A P F V V R G G R R K V L S V T L E H R 859
 CCTGTCTCCAGAGTGGAGCAAGGTGACCTTCTGCTAGAGTTGAGTTAGCTGCTCTCTCTCTGAGC 2736
 P V F Q T G A K V T F L L E F E F S C S S L L S 883
 CAGGCTTTGGAGGCTGACTGCGCAGCTGACAGCTGGAGAGAAATGGCACTTCAAGAAACAGAGC 2808
 Q V F G K L T A S S D S L E R M L L Q E N T A 907
 CAGAGCTCAGCTACATCAATATGAGCCCACTCTCTGCTGAGTGAATCACTGAGCTGAGCTATGAG 2880
 Q T S A Y I Q Y E P H L L F S S E S T L H R Y E 931
 GTTCACTCATATGGAGCTTCCAGTGGCTCTGGCGGAGAAATCAAAACACTCTCAGGGTTCAGAGCTA 2952
 V H P Y G T L P V G P G P E F K T T L R V O N L 955
 GGTGCTATGTGGTCAAGTGGCTCATCTCAGCCCTCTTCACTGCTGGCCCATGGGGCAATATTCT 3024
 G C Y V V S G L I I S A L L P A V A H G G N Y F 979
 CTATCATCTCTCACTGATCACTAAGCAATGCAAGCTGATAGTGCAGAGCTGAGTCAAGCCCGAGCCA 3096
 L S L S O V I T H M A S C I V O N L T E P P G P 1003
 CCTGTGATCAGAGAGGCTTCAACAGCAAGAGAGTGAATGGAGCAATCACTGAGTGTGAGTGTGAGG 3168
 P V H P E E L Q H T M R L M G S N T Q C Q V V R 1027
 TGCACCTTGGGAGCTGGCAAGGGGAGTCAAGTCTCTGCTGAGATTTGAGGCTGTTTCAAGTGAATT 3240
 C H L G Q L A K G T E V S V G L L R L V N H E P 1051
 TTCGAGAGGCAAGTTCAAGTCCCTGAGGGTGGTCAAGCTTTCAGCTGGGAACCAAGAGGGCAAGTGC 3312
 F R R A K F K S L T V V S T F E L G T E E G S V 1075
 CTACAGCTGACTGAAGCTCCCGTGGAGTGAAGCTTTCAGAGTGGTTCAGAGCCCGCTATCTCTATC 3384
 L O L T E A S R M S E S L L E V V Q T R P I L I 1099
 TCCCTGTGGATCTCATAGGAGTGTCTGGAGGGTGGTCTGCTGCTGCTCTCTGCTCTGCTGCTGG 3456
 S L W I L I G S V L G G L L L L A L L V F C L W 1123
 AAGCTTGGCTTTTTCGCAATGAAGAAATCCCTGAGGAAGAAAGAGAGAGGATTTGGAGCAATGAATG 3528
 K L G F P A H K K I P E B E K R E E K L E Q 1145
 TACAATAGGCTTAGAAGCTCTCCCTGCAAGCTTCTTCAAGAGCTTGCATAAAGCAGAGGTTTGGGG 3600
 GCTCAGATGGGAGAGAGGCGCTCTGAGCTATCTCCCGAGAGCAGAGCTGAGTCACTTTTGAAGTCT 3672
 AGGAGTGTCTGTGGTGAAGATGAGGCTTTACTGAGCAAGAGAGCTGGCAACAAAGTGGCATGCTTC 3744
 CAGCTCTGCTTCTGCTCTCTGATCTGCTTCAATAGGCAAGAGCTGGGCTTTTGTGCTGGGCTCTT 3816
 TATCCCGAGGAATCAATATTTTTTGGCTAGGAAAAAAGAGCGGCGGAATTCGATATCAAGCT 3884

FIGURE 6

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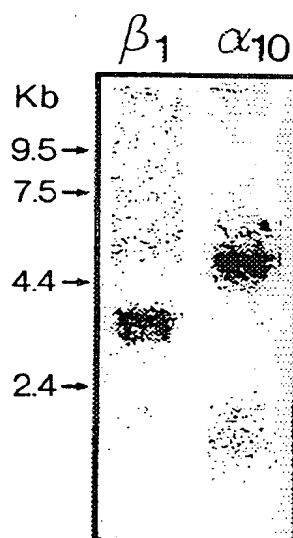
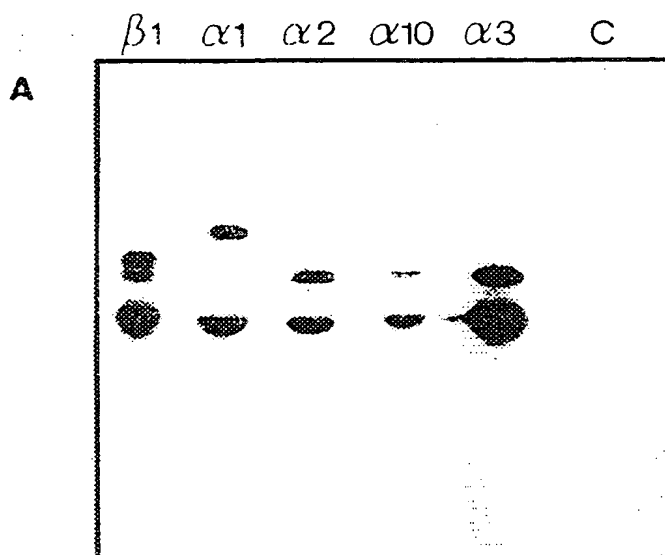


FIGURE 7

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B IP: $\alpha 10$ $\beta 1$
Blot: $\beta 1$ $\beta 1$

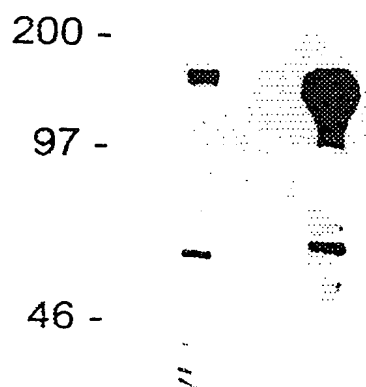


FIGURE 8

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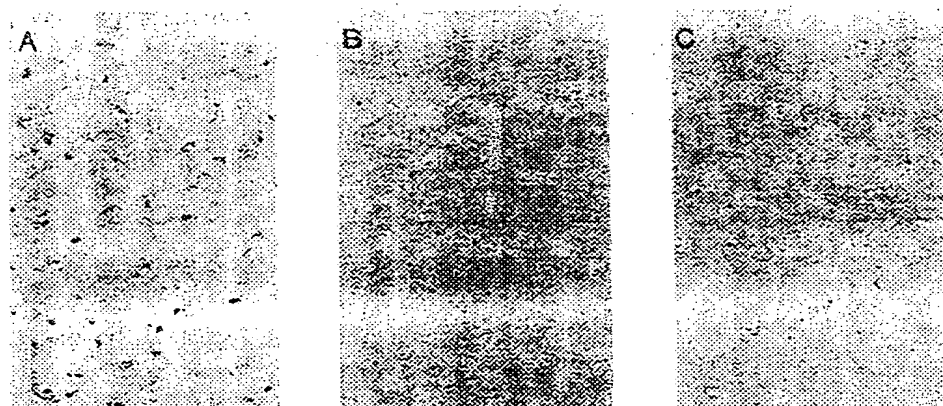


FIGURE 9

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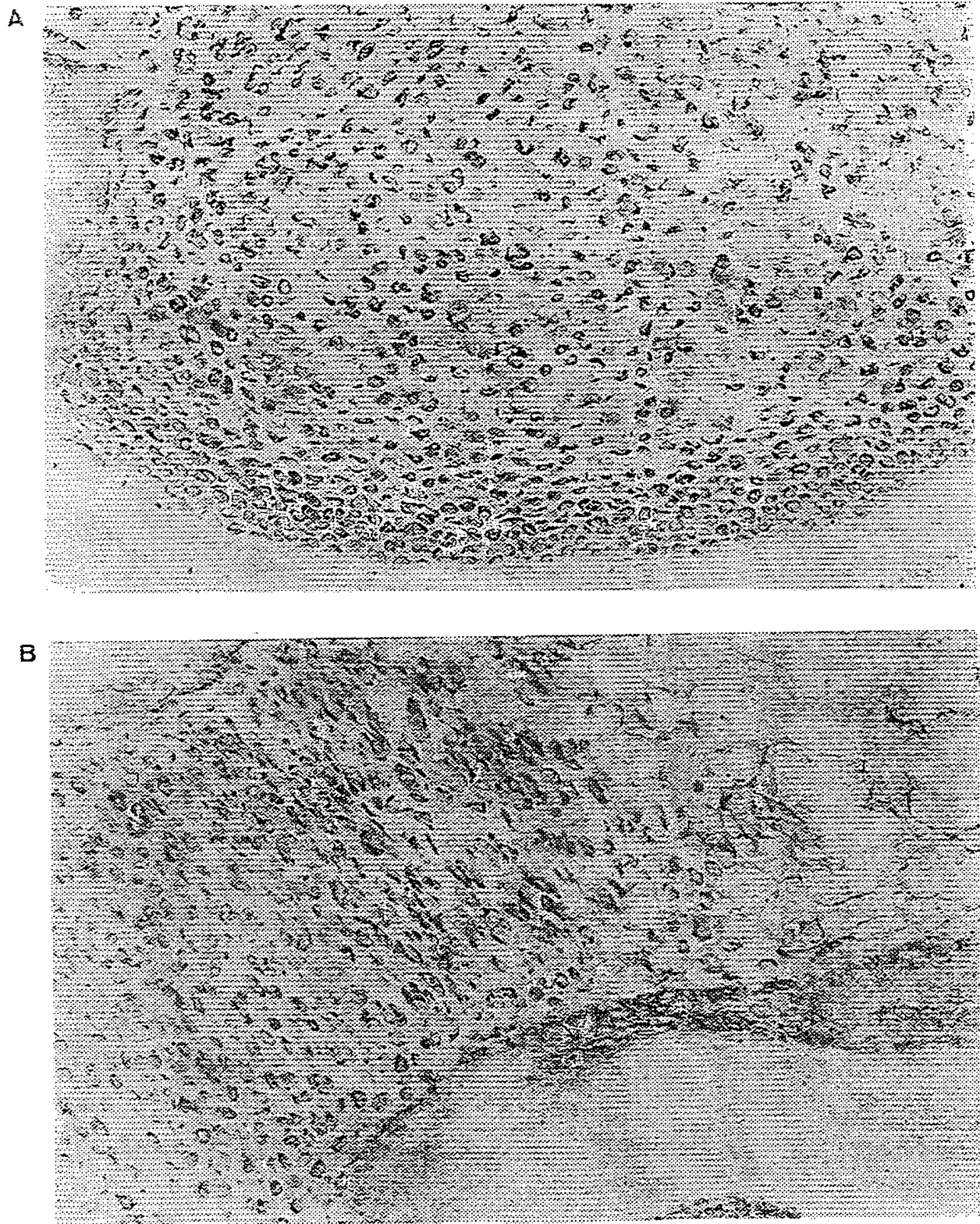
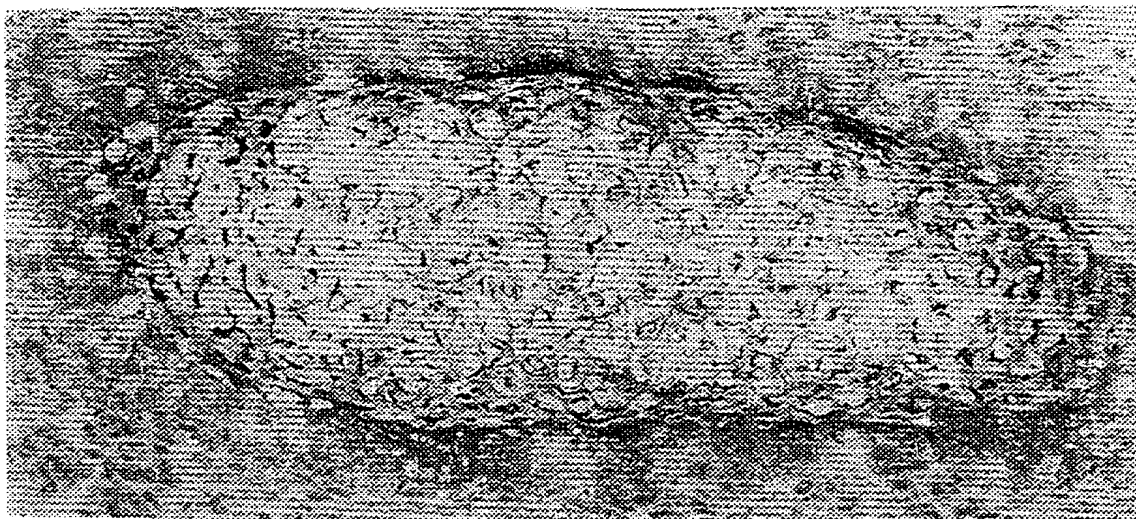


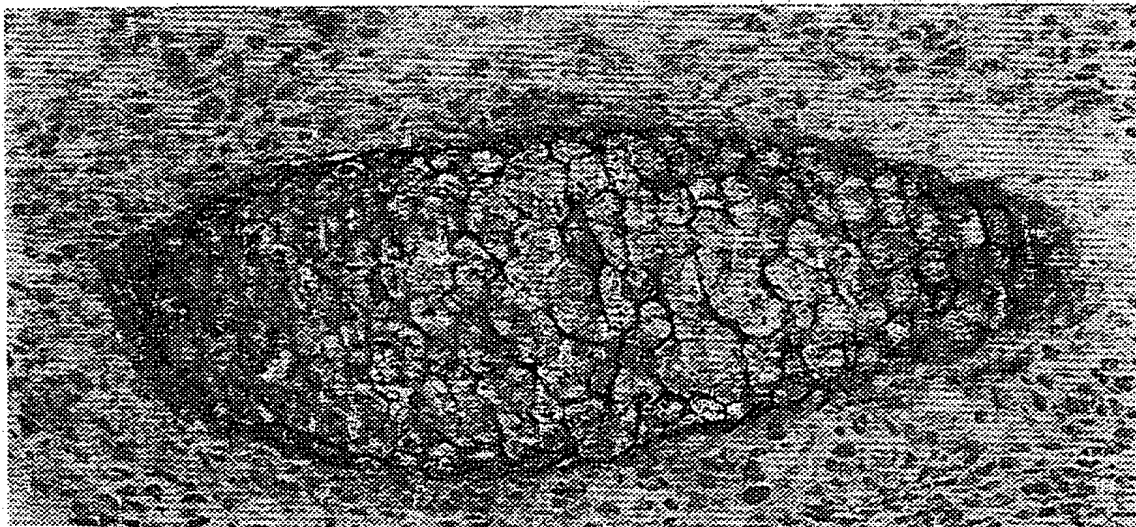
FIGURE 10

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A



B



C

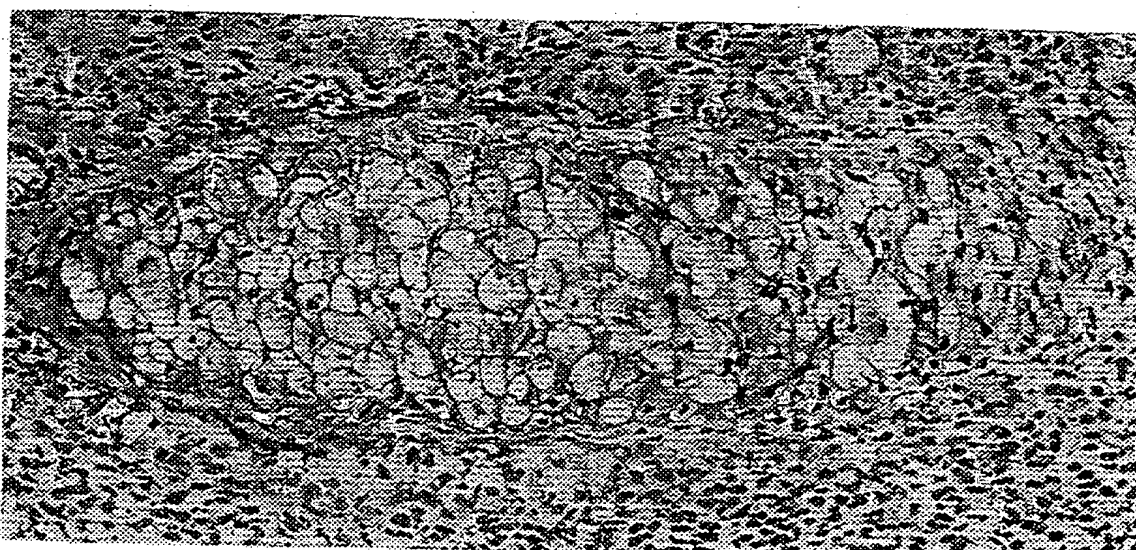


FIGURE 11

005207 11541500

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Human RNA Master blot

Tissue	$\alpha 10$ expression	Tissue	$\alpha 10$ expression
Aorta	++++	Thyroid gland	-
Trachea	+	Salivary gland	-
Lung	++	Spleen	-
Fetal lung	++	Fetal spleen	-
Kidney	++	Thymus	-
Fetal kidney	(+)	Fetal thymus	-
Heart	(+)	Peripheral leucocyte	-
Fetal heart	++	Lymph node	-
Spinal cord	++	Appendix	-
Mammary gland	(+)	Placenta	-
Bone marrow	(+)	Whole brain	-
Small intestine	(+)	Fetal brain	-
Skeletal muscle	-	Amygdala	-
Liver	-	Caudate nucleus	-
Fetal liver	-	Cerebellum	-
Colon	-	Cerebral cortex	-
Bladder	-	Frontal lobe	-
Uterus	-	Hippocampus	-
Prostate	-	Medulla oblongata	-
Stomach	-	Occipital lobe	-
Testis	-	Putamen	-
Ovary	-	Substantia nigra	-
Pancreas	-	Temporal lobe	-
Pituitary gland	-	Thalamus	-
Adrenal gland	-	Subthalamic nucleus	-

FIGURE 12

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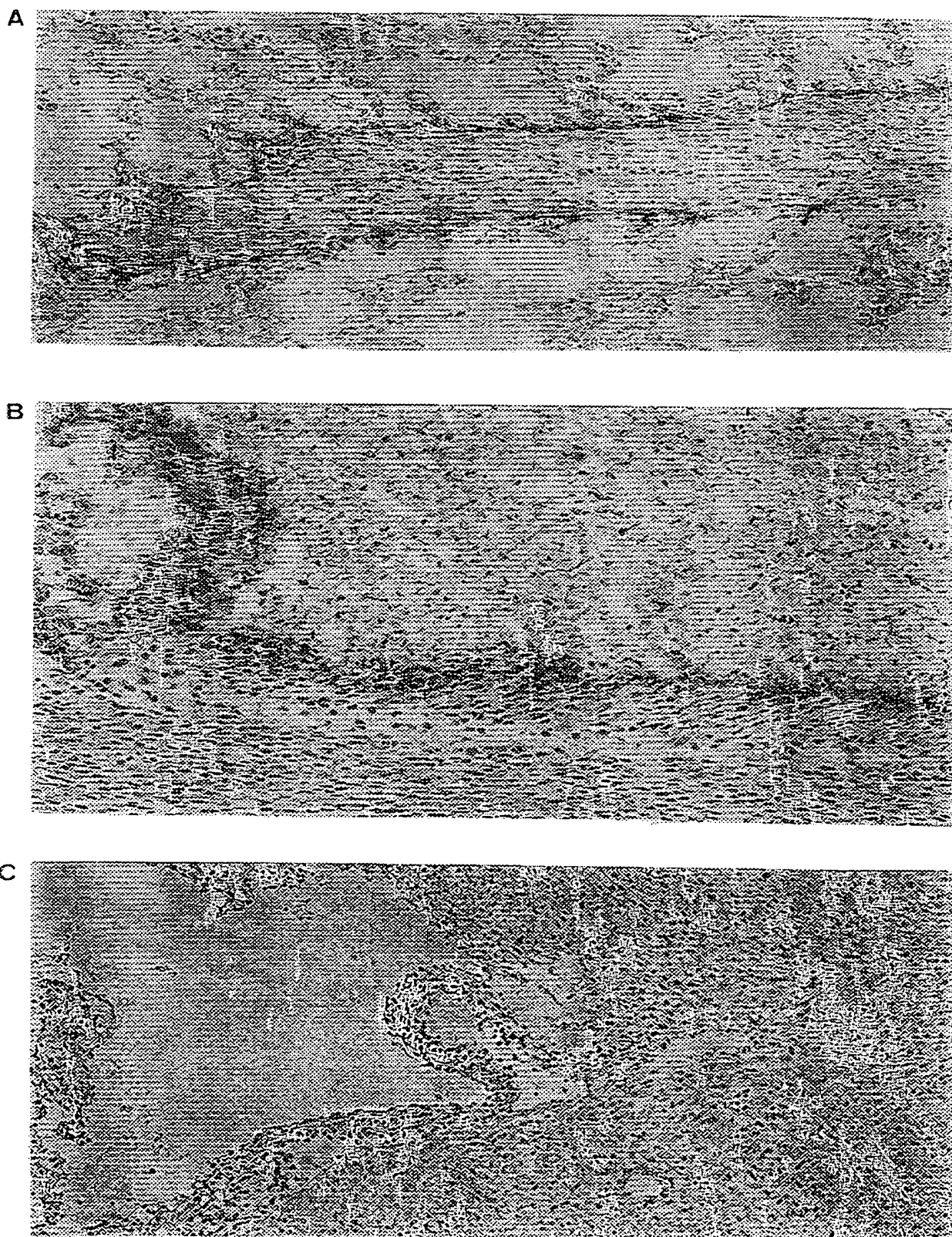


FIGURE 13

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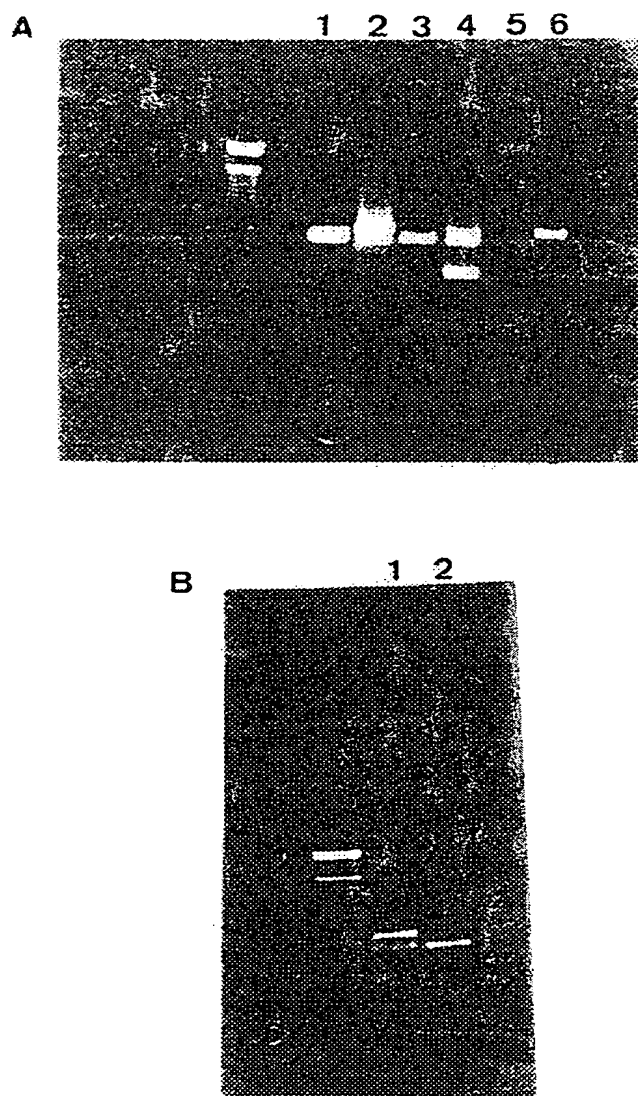


FIGURE 14

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TGNTMMKCMCACGAKMGWSAKGNCCGAKGGTCKGKVAAVGTGACARAGCTNGMNAARANGAAGTATGACCCWGTGGGC 80
? ? ? ? R ? ? ? P ? V ? ? ? D ? A ? ? K ? K Y D ? W A
V ? ? ? H ? ? ? ? R ? ? ? ? V T ? ? L ? ? K ? ? S M T ? G
? ? ? ? T ? ? ? ? ? G ? ? ? ? . Q S ? ? K ? E V . P V G
CRAGATAGMKAMDAAGCNGHSAGKTRAMGGACGATGGNCCMGCCAAVOGABWGGNAAHTBCGGCNWDCCARNGTCCAAATK 160
? I ? ? K ? ? ? ? G R W ? ? Q ? ? G ? ? G ? Q ? P N
P R . ? ? ? S ? ? ? ? D D G P A ? R ? ? ? ? A ? ? ? V Q ?
? D ? ? ? ? A ? ? ? . R T H ? ? P ? ? ? ? ? R ? ? ? S K ?
SANKTCSAGGAACCMACGGANTGGCTCGCARCCCDTAGGGATCAGGKACGATGRCCTSCCGRNSKACTCSGNKGTGATWA 240
? ? ? R N ? R ? G S Q P ? G I R ? D ? S P ? ? S ? . ?
? ? ? G T ? G ? A R ? P . G S G T M ? ? R ? ? T ? ? D ?
? S Q E P T ? W L A ? ? R D Q ? R ? L ? ? ? L ? ? I
ATCGNNWGTMGGMAGGCGGHHGAATTRWAAAGTANTGGTHGAMAKATGWMVGGAWATGATRRGTMGACTVTHVMGGVAK 320
I ? ? ? R ? A ? E L ? S ? G R ? M ? R ? . ? V D ? ? G ?
S ? ? V G R R R N ? K V ? V ? ? ? ? ? G ? ? D ? ? T ? ?
N R ? ? ? G G G I ? K ? W ? ? ? ? ? ? ? M ? ? R L ? ? R ?
VTAKSGGTACAGGCGAAGACARGRAKGTGTCTGAGGAADTCAGNAGGACAAMHTTCCCGAAGTCHGGACTTAGKATRGAT 400
? ? ? Y R R ? Q ? ? ? V . G ? Q ? D ? ? A E V R T . ? ?
? ? ? G T G E ? ? ? ? V S E ? ? R T ? L P K S G L ? ? D
? ? ? V Q A ? ? ? ? C L R ? ? S ? G Q ? C R S ? D L ? ? I
ACGAANCKTRGATCTTAMADGGGGGNKAGCGAGTGCCSTAAACGVARATRGGNSWGTCTACTTMAACNCCAAGNGDGGACA 480
Y E ? ? I L ? G G ? R V ? K R ? ? ? ? ? L L ? ? Q ? ? T
T ? ? ? S ? ? G ? S E C ? N ? ? ? ? ? V Y ? N ? K ? G H
R ? ? ? D L ? ? G ? A S A . T ? ? ? G ? S T ? T P ? ? D
TTTACTAGAGGAGAGATAGCCAGATCACDTGAGATGATCTAAKGTGGGGTCCCGTTGCCAGTATATGAGAGGACTGGT 560
F T R ? G E . P D H ? R . S ? V G S R C Q Y M R G L V
L L ? E E S S Q I T . D D L ? W G P V A S I . E D W
I Y . ? R R V A R ? ? E M I . ? G V P L P V Y E R T G
TCCGCAGACATWATGCTCTTTGCTGACTCACATATTGTTGCCVTGAGKATGATCAGATACGATCTGWTGTCCCTCATCA 640
R Q T ? M L F A D S H I V A ? ? M I R Y D L ? S L I
F G R H ? C S L L T H I L L P . ? . S D T I ? C P S S
S A D I D A L C . L T Y C C ? E ? D Q I R S ? V P H H
TGAATSTGRGCCGTGATGCTAATGAGATTCCGCTATGATGGAACAAGAGACTTMTGCTACAGCAGGCGAATGAAGGTTTC 720
M N ? ? R D A N E I R L . W N K R L ? L Q O A N E G F
? ? ? A V M R F A Y D G N T R D ? C Y S R R M K V S
E ? ? P . C . . D S P M M E Q E T ? A T A G E . R F
TAGAGTAGGAGTCTCAGGAGGAGAGAACTGTGGACCTGGAGGACCAGGGACTCCAGGAGGAAGTGWCCACAATCTGGCTT 800
S R S L R R E T V D L E D O G L O E E V A T T G L
R V G V S G E K L W T W R T R D S R R K K ? P O L A
L E . E S Q E E R N C G P G G P G T P G G S ? H N W L
GMAGTTTCCGCTCCGATCCTGATACWGGCTCGTCCCTTVGAGTTATCCCCCTCTCTTGCTGGATGGCTCAGAAATGCCCTGG 880
? F R L R S . Y ? L V L ? V I P L S C W M A Q K C L
? S F G S D P D T G S S ? E L S P S L A G W L R N A W
? V S A P I ? A R P ? S Y P P L L L L D G G S E M P G
ACCTTTTTCATCCCCACTGGACAAACTAGGCGTCTGGCGTGTGGCCCTGGGATTGTGGGGCTGTGTGGCCCTCATATCCTC 960
D L F I P T G Q T R R L A L W P W D C G A V W P H I L
T F S S P L D K L G V W R C G P G I V G L C G L I S S
P F F H P H W T N . A S G V V A L G L W G C V A S Y P
CATCTGTCTATTCTCACCTAATCTGTCCCTGGNTACGACTCAAGCCCYGACTGACANTGTGGTACAAGATAAGGAGGG 1040
H S V Y S H P N L S L ? T T Q A ? T D ? V V Q D K E G
I L S I L T L I C P W ? R L K P ? L T ? W Y K I R R
P F C L F S P . S V P G Y D S S P D . ? C G T R . G G
AGCCCAGGTGGGTGAGATGGAAGCTGAGATGGTNCACCTGTGTGCCMACCTCATTGTAATCAACTNCCTTGACTGAAGTT 1120
A O V G E M E A E M V H C V P T S L . F N ? L D . S
E P R W V R W K L R W ? T V C ? P H C N S T ? L T E V
S P G G . D G S . D G ? L C A ? L I V I Q L P . L K L
AAAATCCAGATCCYTACGGATGAGGGGAAGAACCTGCCAAGACGGGTGAGGAAGGCAGTGCTAAGGGGAAGGCTCCTGCA 1200
N P D P . G . G E E P A K D G S G R Q C . G K A P A
K I Q I ? R D E G K N L P K T G Q E G S A K G R L L Q
K S R G M R G R T C Q R R V R K A V L R E G S C
GGCCTCTGCAGTTGGACTTCATTGAGTCCCATTCGCCAGAACTCATAGCTCTTCCCYTATCTCTCTGTCTTGAGTCTAG 1280
G L C S W T S F S P I A R I S . L F P L S L C L E S S
A S A V G L H S V P L P E S H S S S ? Y L S V L S L
R P L Q L D F I Q S H C Q N L I A L P ? I S L S . V .
TTAAGAATTTGTTACCGGAGACAGAATTCTCTTTCTTAGCCCTCCTGGCCAGATATTTAAAGGAGGGGGGTGGGTACTT 1360
E F V T G D R I L F L S L L A R Y L K G G G W V T
V K N L L P E T E F S F L A S W P D I . K E G G G L L
L R I C Y R R Q N S L S . P P G Q I F K R R G V G Y F

FIGURE 15a

TTTGCTAGGGGAAGCTTAAAGTTATGGTAGTACAAAGGCTGCTAATGTATCTTTTCTGAAACCTCATGCTAGGATTTTC 1440
F W . G K L K L W I A K C . I Y S F F L K P H V A F F
F G H G S L S Y G . Q S A N C I L F F . N L M . H F S
L V G E A . V M D S K V L I V F F F F S E T S C S I F
TTCCTTCACCCCTCCATACTTCCAGGCTTCATTTCATGCCCGGCTCTCTTCGCTCACACCGCTGCAGGCTGTTTGA 1520
F P S T L H T F P G F I S C P A S L R S H R C R L F E
S L P P S I L S Q A S F H A R R L F A H T A A G C L
L P F H P P Y F P R L H F M P G V S S L T P L Q A V .
GGCTTCTCCCCCTGGGTCTGCCTCAGCAGACTGCCTCCACACTTTCAGTTTCTGCGTACACGTTGATATTAGAGTTTCTC 1600
A L S P L W G L P Q Q T A S T L S S F C V H V D I R V S
R L L P L V L C S R L P P H F P V S A Y V T L I L E F F
G F S P G S A S A D C L H T F Q F L R T R . Y . S F L
TCCCACCTTGGCTCTTGCTCTTCTCTGACTACCCAGGCTGATGCCATGCTGGCGCTCTTCTGTAAATACTGTACAAATG 1680
F P T T W L L L F L . L P R L M F C L A S S C K Y C T M
S P L G S C S F S D Y P G . C H V W P L P V N T V Q .
S P H L A L A L S L T T Q A D A M S G L F L . I L Y N
ATTCTATGTAAATAACTGGTCTCTTGCCCCAGAGCAAGCAAGCCTTCTAGGCTAAACAATTAAGATCAAGTTTGCTCAC 1760
I L C K . L V L A H R A S K P S R L T N . R S S L L T
F Y V N W S L P T E Q A S L L G . Q I K D Q V C
D S M . I T G F C P Q S K Q A F . A N K L K I K F A H
TGACTTTTTATTCAATTCAAGATGGCGGGGGTGGGGTGGGGGGGGGATTGCCTGTTTCACTGTGGTACCTAGGCAG 1840
D F F I O F K M A G G G V G G G R I A C F H C G T . A
L T F L I F N S R W R G V G W G G G L P V F T V V P R Q
L F Y S I Q D G G G W G G G A D C L F S L W Y L G R
GGCTGAAGCTCTGAGCTCCCCCTGCTTTAGGCTTCTGAGTAGCCACAGTGAGTGTACTGTGTCCAGCTGCTCGTTGACA 1920
G L K L . A P L L . A S E . P T V S V T V S S C S L T
G . S S E L P C F R L L S S L Q . V L L C P A A R . H
A E A I S S P A L G F . V A Y S E C Y C V Q L L V D
TCTGGTCTCTCATGGTCTGGTCAATGCTTAGCTCTGACTGTGGATGGCTTTCTTTGGCGTTAGCAGCTAAACAT 2000
S G L S W S G H C K P . L S D C G W L S L A L A A N M
I W L S H G V L S I L S L A L . L W M A F L G V S S . H
GGTTACAGGATTTCACTGAAAAATTTAAATGTTGGGGGAAGGTGCGGACACACCATAATGGTCCCAATTCAAAACAATCC 2080
V T G F H . K F K C W G K G A D T P . W S Q F K T I
W L Q D F T E N L N V G G K V R T H H N G P N S K Q S
G Y R I S L K I . M L G E R C G H T I M V P I Q N N P
GTGAAACAGCCTCAAGTTAGGGGTGAGATGTTTTCAACCAAAGTAATTATCTTGACACCACAAAGCACACCTGTCTACAG 2160
R E T A S S . G . D V F N O S N Y L D T T K H T C L O
V K Q P Q V R G E M F S T K V I I L T P Q S T P V Y R
N S P L K L G V R C F Q P K . L S . H H K A H L S T
GCAGTGACTCCCCAAAAGCTATTAGACACACAACAGCATGACCATAACTCAGTGAGTTGGCAAGGTACACAGTAGGAC 2240
A V T P Q K L L D T Q Q A . P . L S G L A R S H S R T
Q . L P K S Y . T H N K H D H N S V D W Q G H T V G
G S D S P K A I R H T T S M T I T Q W I G K V T Q . D
TGCCCTTCACACAGTAGGTAGGAAAATGCTGCTGTCTGCTGTGCTGCTGTTATTTTGCATATCCCATGTTAAGATTAA 2320
A L H T V G R K M L L S L L S A V I L H I P C . D .
L P F T Q . V G K C C C H C Q L L F I C S H V K I N
C P S H S R . E N A A V T A V S C Y F A Y P H L R L I
AAGCGAAAAAATTGTTCTTAAGTCTCTACTTCTGTTTCCAACTGGAGGAAATTATTGAATAATAAACCGTGCAATAA 2400
K K K Y C L . V L L S V P N W R K L L N K . T V H K
K A K N I V S K S Y F L F Q T G G N Y . I N K P C I K
R Q K I L S L S P T F C S K L E E I E . I N R A .
AGTAGCCTCAGAAAGGGTCAAAATTTCTGTTTTCTTTGAATATTAGCTGAGGCGCTCCAGGGGGCAGCACCAAGGTAGAGA 2480
S S L R K G O N L C F L . I L A E A S R G Q H Q G R E
V A S E R V K I C V F F S L N I S . L R P P G G S T K V E
K . P Q K G S K F V F S L N I S . G L Q G A A P R . R
GCTGGACTAAGGCTCTCTGTGTTCTGTCTCTGGGCTCCCCACAGCTCCCTTCACCACCCTCCCATCCATCCAACCT 2560
L D . G C S V F L S C W A P H S S L P P P L F F H P T
S W T K A A L C S C P G L P T A P F P H H S H S I Q L
A G L R L L C V P V L G S P Q L P S T T T P I P S N F
TATTTTATGCTGCCAGTGGGAGGGGGCAGGATAGGAGGGAAAGTAACGAAAACAGCCAAGGAGAGGGACAGAGCAACTCA 2640
L F L A A S G R G Q D R R E S N E N S Q G E G Q S N S
Y F . L P V G G G R I G K V T N T A K E R D R A T Q
I F S C W E G A G . E G K . R K Q P R R G T G E Q L
GAGCCTCTCGGACTGGACGGACAGCGCCCTCTGAGTCTCTCCATCCCTCAGCTGCTCCTGCGCCCTGGCGTGWGTGA 2720
E P L G L D R T S A H G V S L H P S P A P A P G V A D
S L S D W T G Q A P M E S L S I P H L L L P L A ? L
R A S R T G T D K R P W S L S F S L T L C S C P W R ? L

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CAGGTGAGGGAAGCAAACCTTGGTTTCTGCTGGGAATGGAAGTTATGTGGATTGTTTATAATTGGGACCATTATGGCTAAA 2800
 R . G K Q T W F L L G M E V M W I V Y N W D H Y G .
 T G E G S K L G F C W E W K L C G L F I I G T I M A K .
 Q V R E A N L V S A G N G S Y V D C L L . L G P L W L K
 ATCTYGGGGCGCTCAGGTCCGAGGTTAATACCGATGCTATATTTCTGTGTGCACTCATGTTCTTAGACACCCAAATGG 2880
 N L A G A Q V G G . Y R C Y I S C V H S C S . T P K W
 I ? R A L R S E V N T D A I F P V C T H V L R H P N G
 S ? G R S G R R L I P M L Y F L C A L M F L D T Q M
 CAGTGGCCAAAACCTTCTCTGGCTGTACCTCATTATCTAAACCTTTGTACCTAATTATCTAAAACCTTGGTCCTAAACT 2960
 Q W P K L P L A C T S L S K P L Y L I I . N L G F K L
 A V A K T S S G L Y L I I . T F V P N Y L K P W S . T
 CCACAGACATGAGGGCAGAGAAAGAGACGTGTCTCTCATCTTCCATTGGGTACACTGATTCTACCTTCCCTGCTTCT 3040
 H R H E G T E K R R V S H L P F G Y T D S Y L P C F
 S T D M R A Q K R D V S L I F H S V T L I P T F P S
 F Q T . G H R K E T C L S S S I R L H . F L P S L L L
 CCCTGCTATTGGTGTCTTGGTGCCTGAGGCATAATTGCCTTACTATGTGGTCAGAACTCTGGGTTCGCTAACGACCG 3120
 S L P L V L L G A . G I A L L C G Q N S G F A . R P
 P C H W C S L V P E A . L P Y Y V V R T L G S P N D R
 P A I G A P W C L R H N C L T M W S E L W V R L T T
 AGCTACAGTTTCTGGTCTCATAGCCCTGCCAATTTCTGGATTAAAAAAGGCTCACATATAAAATACCTTTTCTGA 3200
 S Y S F W S H S P A N F L D . K K K A H I . N T F S E
 A T V S G L I A L P I S W I K K K R L T Y K I P F L
 E L O F L V S . P C Q F P G L K K K G S H I K Y L F .
 AAATGAGCACAGTGTGAGTTGAAGTTAGATTTTGGGGGATGGAGGGTTGCTTGGATGCAAAGAGCAAGACAGTAGAGAAG 3280
 N E H S V S . S . I L G D G G L L G C K E Q D S R E
 K M S T V . V E V R F W G M E G C L D A K S K T V E K
 K . A Q C E I K L D F G G W R V A W M Q R A R Q . R R
 AGAATCATGGGAGGATAAGAGGCTGGAATTTTCCCTGTAGTGCCCTATAATCTTTGTTTCTAAAATAACAGCTCTG 3360
 E N H G R D K R L E F F P A S A L . S L F P K I T A L
 R I M G G I K G W N F S L L V P Y N L C F L K . Q L L
 E S W E G . E A G I F P C . C P I I F V S . N N S S
 ATTTTATGGGAATTGGGGTCAGGAGAAAGGAATCAGTAGGCACAGATGGGACCCCAAGCGTGGACTAAAGTTTGAGGAAA 3440
 I L W E L G S G E R N Q . A Q M G P Q A W T K V . G N
 D F M G I G V R R K E S V G T D G T P S V D . S L R E K
 CTATGGGAGTAGGCAAGGGGTGTTTGAAGGTGGATGAGATGAGGAGATTGTGTGGCGGGGAGTCTTGGGGGTGATAGG 3520
 Y G S R Q G V F V R W M R . G D C G G G E S W G .
 T M G V G K G C L . G G . D E E I V V G G S L G G D R
 L W E . A R G V C K V D E M R R L W W G G V L G V I G
 ACCCTTAACAGGGATAGATGGCAAACCTGTGTGTGGGCAAGCCGGTGGTTCCACCCACTTAATTAGCGTTGAGGTTGGCAG 3600
 D P . Q G . M A N C V W A G R W F H P L N . R . G W Q
 T L N R D R W Q T V C G G Q A G G S T H L I S V E V G R
 P L T G I D G K L C V G R P V V P P T . L A L R L A
 GGCTGGAAGGAGCCAGCACTCTCAACCTTGGAGAAAGTGCAAGTGTGACAAGAAGAAACAGAAAGAGGAGACACCGGGC 3680
 G W K E P A L S T L E K V Q V . Q E E T E R G D T R A
 A G R S Q H S O P W R K C K C D K K K Q K E E T P G
 G L E G A S T L N L G E S A S V T R R N R K R R H P G
 AGGGAGCTCCTTGCCATCGTTTCTTCCATGGCCCTGGCTTTGGGAAGAATTAGGAAAGGGTGGTGACTCTGCATCCTCA 3760
 G S S L P S F L P M A L A L G R I R K G W . L C I L
 Q G A P C H R F F P W P W L W E E L G K G G D S A S
 R E L L A I V S S H G P G F G K N . S R V V T L H P Q
 GAAAAGCCCTCTCTCCCTCTTTGGACTCTCGAGGCTTAGAGAGGAGAATGTGTAGGAGGAATGATGTGGAAGAGTAAC 3840
 R K A L S P S L D S R G L E R R M C R R N D V E R V T
 E K P S L P L W T L E A . R G E C V G G M M W K E . L
 K S P L S L F G L S R L R E E N V . E E . C G K S N
 TGACCTATCCAGATGTCTGTGAATGAGATTTAGGAATGAGAATGGAATACAGCTGTGCTTACAGCATGCCCGAGGGC 3920
 P I O M C L . M R F Q E . E W K Y S C A S A W P R A
 D L S R C V C E . D F R E N G N T A V L Q H G R G
 L T Y P D V S V N E I S G M R M E I Q L C F S M A E G
 CTTAGGATCCCTCACCCCCACCCACAGGAAGAGAATCATCCAATCATCCACCTGGGGTTCTGAGGACATGACATTGAC 4000
 L G S L T P T P Q E E N H P I I P P G V L R T . H .
 P . D P S P P P P H R K R I I Q S S H L G F . G H D I D
 L R I P H P H P T G R E S S N H P T W G S E D M T L T
 ACAGAGCAGGAGAGCTGAGATAGAAACACTCCCTCCTGTCTGTCTCCCAAGCCTCACCAGTCTTCAATTAAGTGAT 4080
 H R A G E L R . K H S L L S C L P L S L T S P S L T D
 T E Q E S . D R N T P S C L V S H . A S P V L H . L I
 Q S R R A E I E T L P P V L S P T K P H Q S F I N .

FIGURE 15c

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TGGTGGATGCTAATTATGATCCTCACCCCTCAGGTCTCTGCTCCCCCTTTAATCTGGATGAACACCACCCAGGACTCTTC 4160
 W W M L I M I L T P Q V S A F P L I W M N T T H D S S
 L V D A N Y D P H P S G L C S P F N L D E H H P R L F
 ACAGGGCCACCCAGAGGCCGAATTTGGATACAGTGTCTTACAGCATGTTGGGGGTGGACAGCGATCGTGAGAGGGGAAACA 4240
 Q G H O R P N L D T V S Y S M L G V D S D G E R E N
 H R A T R G R I W I Q C L T A C W G W T A M V R G K Q
 T G P P E A E F G Y S V L Q H V G G G Q R W . S G K Q
 GAGGACCGTGGGATCGGGACTATGCACTCACTGATAAAGGGGAGGACCGGTCCAAGCTGGCCTTTGAAAGTGCCCTGGGGC 4320
 R G P W D R D Y A L T D K G E D R S K L A F E S A W G
 E D R V G I G M H S L I K G R T G P S W P L K V P L G A
 R T V G S G L C T H . . R G G P V Q A G L . K C L G
 TCCATGACGTCTCATGCACTCTCCCTCTCACTATACTAAGGACCATGCTCACCGGATCTTTATATCCATATTCTCCTTCC 4400
 S M T S H A L S L S L Y . G P C S P D L Y I H I L L P
 L H D V S C T L P L T I L R T M L T G S L Y P Y S P S
 AGGATGCTGGTGGGTCGCCCTGGGATGGGCCATCAGGTGACCGGAGAGGGGATGTTTATCGTTGCTCTATAGGGGGATT 4480
 G C W W V P P G M G H Q V T G E G M F I V A L . G D
 Q D A G G C P L G W A I R . P E R G C L S L L Y R G I
 R M L V G A P W D G F S G D R R G D V Y R C S I G G F
 CCACAGTGCTCCATGTACCAAGGCCACCTGGGTAAGAAGAAGCCTGACCTTTCCCTGCTAATTCCTGATGTTGACATC 4560
 S T V L H V P K A T W V R R S L T F P L L I P D V D I
 P Q C S M Y Q R P P G . E E A . P F P C . F L M L T S
 H S A P C T K G H L G K K K P D L S P A N S . C . H
 TAGTAAGTCTGACCCCTTGGACCTTGTCTTCAATGACCCCTGAAGTAAAGAAGCGGAAGTATGACCCATGACTTCATTCT 4640
 . L . P L G P C L Q . P . T K E A E L . P H D F I L
 L N S D P L D L V F N D P E L K K P N Y D P M T S F
 L V T L T F W T L S S M T L N . R S R T M T P . L H S
 CTTCTACCCCTTCTCCAAACCGGTGACTATCAACTTGGAAATTCCTCTCAGCCTGCTGTGAATATGCACCTAGGGATGTC 4720
 F Y P S S N Q V T I N L E I P L S L L . I C T . G C
 S S T L P P T R . L S T W K F L S A C C E Y A P R D V
 L L P F L Q P G D Y Q L G N S S Q P A V N M H L G M S
 TCTACTAGACAGATGCTGATGGGGATTCTGCTGAGCTGAAGAAGGGCCTCAGAAGGTTACAGCAGGGAAGAGAG 4800
 L Y . R Q M L M G D S W . A E R R A S E G S Q Q G R E
 S T R D R C . W G I H G E L K E G P Q K V H S R E E S
 L L E T D A D G G F M V S . K K G L R R F T A G K R
 CATTATGGTATCTGGGCAGTGGTGGCTTGGGCCCTTTCATCCAGTGTTCTGGAGGCAGAGTCAGGCCTGATCTACAGAGT 4880
 H Y G I W A V V A W A F H P S V L E A E S G L I Y R V
 I M V S G Q W W L G P F I P V F W R Q S Q A . S T Q E
 A L W Y L G S G L G L G L S S Q C S G R V R P D L Q S
 GAGCTCCAGGACAGCCAAAGGCTATGCAGAGAAACCTGTTTTGAAAAACCCAAACCAAACTAACCAACAACAAC 4960
 S S R T A K A M Q R N P V L K N P K P K L T K Q Q Q
 . A P G Q P R L C R E T L F . K T O N O N . P N N N
 E L Q D S Q G Y A E K P C F . E K P K T K T N Q T T T T
 AGAAAAAGCACCGTGGTAAGGGAATAGTCTGTATAGAAGAGACAAGGAATTCAAAACCTAGAGAGCAAGGCAGGGTT 5040
 Q K K H R G K G N . S V . K R O G I Q N P R E O G R V
 R K S T V V R E I S L Y R R D K E F K T L E S K A G F
 E K A P W . G K L V C I E E T R N S K F . R A R Q G
 CCCCATGGAGTGGTCTCATCTCTCTTTAACTAGGTGTGTGTTCCGAGAGGGCCTCTCAAGCCTGGGGATAACTATTTC 5120
 P H G V V S I S L L T R C V F R E A L S S L G I T I S
 P M E W S F S L F . L T G V C S E R P S Q A W G . L F
 S P W S G L H L S F N . V C V P R G P L K P G D N Y F
 TCCTATCCACCCAGGCCTGTGCCCCCTTTGGTCTCGTGGCCTGCGGCAGCTCTGTCTTCAGTTCTGGAATATGTGCCCGT 5200
 P I H P G L C F S L V S C L R Q L C L Q F W N M C P
 L L S T Q A C A P L W S R A C G S E V F S S G I C A R
 S Y P P R P V P L F G L V P A A A L S S V L E Y V P V
 GTGGATGCTTCATTCCGGCCCCAGGGAAGCCTGGCACCCACCGCCCAACGTGAGCCAGTGAAGGGCCCTGGAAGCTCAG 5280
 C G C F I P A P G K P G T H R P T . A S G R A L E A Q
 V D A S F R P Q G S L A P T A Q R E P V E G P W K L S
 W M L H S G P R E A W H P P P N V S Q W K G P G S S
 TTCCAGATAGGGATGCTGGGTGGGAAAACTAGGACAAAGACTTGGTGGAGGGTCTGCATGGCTATCCTCATCATTCCC 5360
 F P D R D A G W E K L G O R L G G G S A W L S S S F F
 V S Q I G M L G G K N . D K D L V E G L H G Y P H H S
 V F R . G C W V G K T R T K T W W R V C M A I L I I P
 AAGTGTGCTTGCAGAAGAGGCTCCTGTTTGCTAACTGATTAGAATTCAAGTCTTAGGAGAGCCTCAAGACACAGGAT 5440
 S V L A E E A P V C . L I R I Q T P . E S L K T P G
 Q V C L O K R L P A N . L S F R L L R R A S R H Q D
 K C A C R R G S C L L T D . N S D S L G E P Q D T R I

FIGURE 15d

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CTGGTTTTACCAACTTAAAAACAAAACAAAACAGCATATCCTGTGCACAGCCTATCCCTCATCCATCAGGTGTCCTCCAT 5520
 S G F T N L K T K Q N S I S C A Q P I P H P S R V L H
 L V L P T . K Q N K T A Y P V H S L S L I H H V S S I
 W F Y Q L K N K T K Q H I L C T A Y P S S I T C P F

ATCTTATTTTTGTGGGTCTTATAGATGCCAAGTCAGCACTCAGTTATTGGGTTCTCCCTCATGCCCTTTCATATACTTTC 5600
 I L F L W V L . M P S Q H S V I G F S P H A F H I L S
 S Y F C G S Y R C Q V S T Q L L G S P L M P F I Y F
 Y L I F V G L I D A K S A L S Y W V L P S C L S Y T F

TTATCTACTGCCCTTTTGGGAGATAGTCTTATGTAGCCAGGCTGTCTTGATCTTGAATTGCTTGCTCAGCTTCTCA 5680
 Y L L P F G R . S Y V A Q A V L D L G I C L P Q L L
 L I Y C L L G D S L M . P R L S L I L E F A C L S F S
 L S T A F W E I V L C S P G C P . S W N L L A S A S Q

GTCTCAAGTACTGGGATAATAGGCATGCATTGTCTGCTGGCCTTTGCTGAACATGCCCTCTGTGGCCATTGGTAGGGCA 5760
 S L K Y W D N R H A L S A W P L L N M P S V A I G R A
 S S T G I I G M H C L P G L C . T C P L W P L V G H
 S Q V L G . . A C I V C L A F A E H A L C G H W . G

TGAGTCAAATACTGCCCTCCCCCAGAACACACACACAAAGTGAAGGCTCTCTAAGTGTCCATAGCACAGGGTAGT 5840
 . V K Y C P P P P Q H T H K R K . G S L S V P H . H R V V
 E S N T A L P H N T H T N E S E A L . V F H S T G .
 M S S T G I I G M H C L P G L C . T C P L W P L V G H

GGTAGGCTCTCGCTAGTGCATATTTCTTTTACTCTGCCCATCTCTTCTTTCTTTGATTCCACACTGGGACCTG 5920
 V G L S L V H I S F F Y S A H L F F L . F P H W G F
 W . A S R . C I F H S F T L P I S S S F F D F H T G D L
 G R P L A S A Y F I L L C P S L L S L I S T L G T W

GCATAGTACTTTCTGGTAATTAAGAGAGAATTCCTTTTAAAGTGCCTGCATTGCAGCGTCTCTGGGACATTCTCCCT 6000
 G I V L S W . L R E N S L L S A C I A A S S W D I L P
 A . Y F P G N . E R I P F . V P A L Q R P P G T F S L
 H S T F L V I K R E F P F K C L H C S V L L G H S P

TGCTGACTACACCCACATCCTTCCATGTTTTTGTTTCCCATCACTATGCCCCCTTCTAGGCTGTCCACATACATGG 6080
 C . L H F T S F H V F C F P S L C P P S R L S H I H G
 L A D Y T P H I L P M F F V S H I T M P P F . A V F H T W
 L L T T P H I L P M F F V S H I T M P P F . A V F H T W

ATGTCGTTCATTGTTTTGGATGGCTCCAACAGTATCTATCCCTGGTCAGAAGTTCAGACTTTCTTCGGAGGGCTGGTAGGA 6160
 C R H C F G W L Q Q Y L S L V R S S D F P S E A G R
 D V V I V L D G S N S I Y P W S E V O T F L R R L V G
 M S S L F W M A P T V S I P G Q K F R L S F G G W . E

AGACTGTTTCATCGATCCGGAGCAGATACAGGTAAGAGAAAGATATGTGGATAGGATTGGAGGGAAGAAGTAACACTCC 6240
 K T V H R S G A D T G K R K I C G . D W R E R S K H S
 R L F I D P S Q I Q V R E R Y V D R I G G K E V N H S
 D C S S I R S R Y R . E K D M W I G L E G K K . T L

TGGACCTTGGATGTAAGCAGCATGTCCAGCCTCTTGATGACACCTGGGACATTGTCTTCTACAGAACTCATGCTCAA 6320
 W T L G C K Q P C P A S . H P G T L S S T E L M L K
 G P L D V S S H V Q P L D D T L G H C L L O N S C S
 L D P W M . A A M S S L L M T P W D I V F Y R T H A Q

GAACTGTGCAATTAACCTTACCAAAAAGTCACAAAAATTTATAATGTTTGAAGTAAGTTTATGATTGTGTGGGGGCCAC 6400
 N C A I N L P K S H K N F I M F E V S L . L C G G P
 R T V Q L T Y Q K V T K I S . C L K . V Y D C V G G P
 E L C N . L T K K S Q K F H N V . S K F M I V W G A T

ACTCAGAGCTTCCCTTTGCTGCTTGTAGTTGCTTGGGCAATGCATGCCATGAGCTGCAAGTTAGACACACCTGTTCACTT 6480
 H S E L P F A A C S C L G N A C H E L Q V R H T C S L
 T Q S P L L L V V A W A M H A M S C K L D T P V H F
 L R A S L C C L . L L G Q C M P . A A S . T H L F T

CCCTTCATCGTGTGCAGGTTGGACACACCTGTTAGGGGTTCACTTCCCTTCATCCTTTGTGCTCCATCTTCTCTACG 6560
 P L H R A A G W T H L L G V H F P F I L C A P S S L R
 S P S S C C R L D T P V R G S L P L H F L C S I F S T

CTCTTCATACATCCCATGTGGGCACATGCTTATTGTTCTCAGGTAGGACTGGTACAGTACGGGGAGAACCCCTGTGCATG 6640
 S S Y I P C G H M V Y C S Q V G L V Q Y G E N P V H
 A L F I H F M W A H G L L T F S G R T G T V R G E P C A .
 V V P G R L P S E N K G R S C E S S K E P K S E G R A R

AGTGGTCCCTGGGAGACTTCGAACAAAGGAAGAAGTTGTGAGCAGCAAGGAACCTAAGTCGGAGGGAAGGGCGAGAA 6720
 E W S L G D F R T K E E V V R A A R N L S R R E G R E
 S G P W E T S E Q R K K L . E Q Q G T . V G G K G E S K
 V V P G R L P S E N K G R S C E S S K E P K S E G R A R

ACGAGAACCAGCGATCATGGTGGCATGGTGGACATTGTAAAGGGTGGTGTGAGGAGGAGGAAGGATCAGCAG 6800
 T P T A Q A I M V A W . D I V K G S C E G G G R I S R
 R E P P P K R S W W H G E T L . R G R V R E E E G S A
 N E N R P S D H G G M V R H C K G V V . G R R K D Q Q

FIGURE 15e

[illegible]

FIGURE 15f

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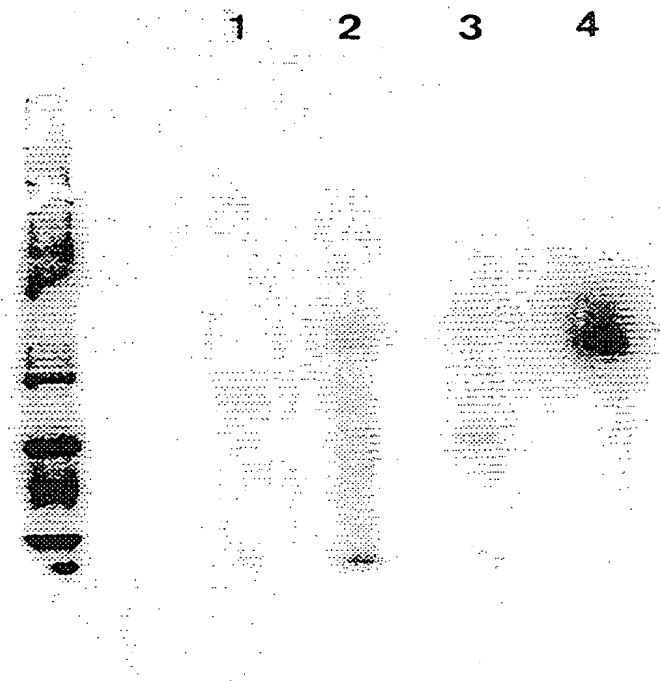


FIGURE 16

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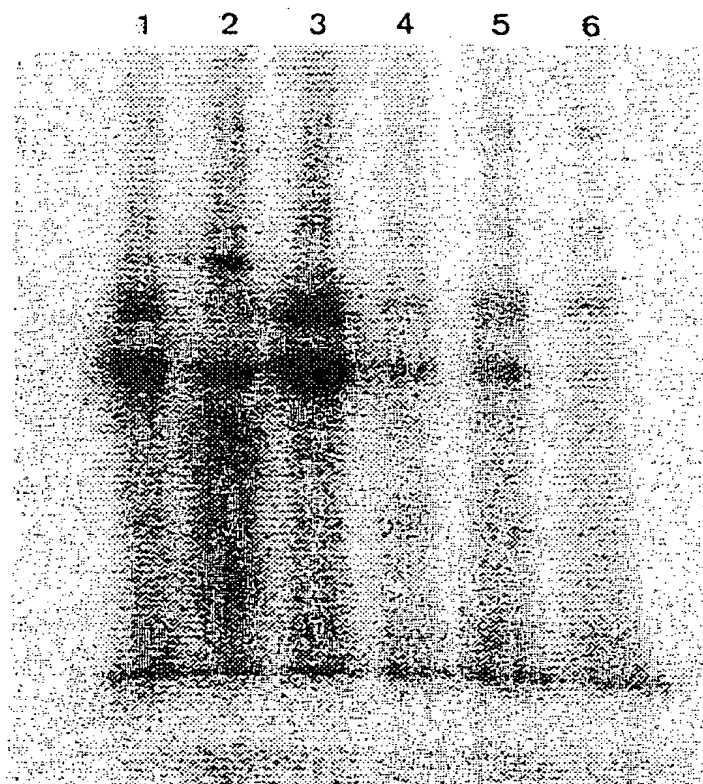


FIGURE 17